

Product datasheet for **RG217869**

Junctophilin 2 (JPH2) (NM_175913) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Junctophilin 2 (JPH2) (NM_175913) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Junctophilin 2
Synonyms: CMH17; JP-2; JP2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG217869 representing NM_175913
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGGGGCCGCTTCGACTTTGATGATGGAGGGGCGTACTGCGGGGCTGGGAGGGGGAAAGGCC
ATGGGCATGGACTGTGCACAGGCCCAAGGGCCAGGGCGAATACTCTGGCTCCTGGAACCTTTGGCTTTGA
GGTGGCAGGTGTCTACACCTGGCCAGCGGAAACACCTTTGAGGGATACTGGAGCCAGGGCAAACGGCAT
GGGCTGGGCATAGAGACCAAGGGGCGCTGGCTCTACAAGGGCGAGTGGACACATGGCTTCAAGGGACGCT
ACGGAATCCGGCAGAGCTCAAGCAGCGGTGCCAAGTATGAGGGCACCTGGAACAATGGCCTGCAAGACGG
CTATGGCACCGAGACCTATGCTGATGGAGGGATGTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG217869 representing NM_175913
Red=Cloning site Green=Tags(s)
MSGGRFDFDDGGAYCGWEGGKAHGHGLCTGPKQGGEYSGSWNFGEVAGVYTWPSGNTFEGYWSQGKRH
GLGIETKGRWLYKGEWTHGFKGRYGRIRQSSSSGAKYEGTWNNGLDQGYGTETYADGGMC

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_175913

ORF Size: 387 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_175913.4](#)

RefSeq Size: 2408 bp

RefSeq ORF: 390 bp

Locus ID: 57158

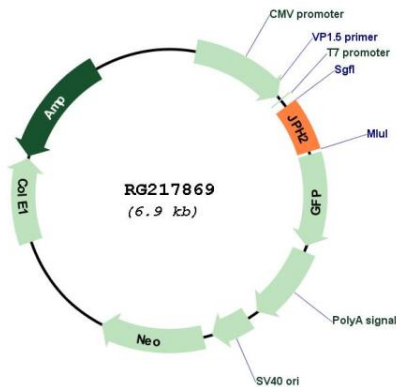
UniProt ID: [Q9BR39](#)

Cytogenetics: 20q13.12

Protein Families: Transmembrane

Gene Summary: Junctional complexes between the plasma membrane and endoplasmic/sarcoplasmic reticulum are a common feature of all excitable cell types and mediate cross talk between cell surface and intracellular ion channels. The protein encoded by this gene is a component of junctional complexes and is composed of a C-terminal hydrophobic segment spanning the endoplasmic/sarcoplasmic reticulum membrane and a remaining cytoplasmic domain that shows specific affinity for the plasma membrane. This gene is a member of the junctophilin gene family. Alternative splicing has been observed at this locus and two variants encoding distinct isoforms are described. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG217869